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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Madison *et al.*

Serial No.: 10/099,700

Filed: March 13, 2002

Conf. No.: 4309

For: **NUCLEIC ACID MOLECULES
ENCODING A TRANSMEMBRANE
SERINE PROTEASE 7, THE ENCODED
POLYPEPTIDES AND METHODS BASED
THEREON**

Art Unit: 1645

Examiner: Unassigned

TRANSMITTAL LETTER

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Sir:

Transmitted herewith via hand delivery are an Information Disclosure Statement, Form PTO-1449 (36 pages) and cited references for filing in connection with the above-identified application.

[X] The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 50-1213. A duplicate of this sheet is enclosed.

Respectfully submitted,
HELLER, EHRMAN, WHITE & McAULIFFE LLP

By:

Stephanie L. Seidman
Registration No. 33,779

Dated: January 8, 2003

Attorney Docket No. 24745-1613

Address all correspondence to:

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**INFORMATION DISCLOSURE STATEMENT IN
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

Commissioner for Patents
U.S. Patent and Trademark Office
P.O. Box 2327
Arlington, VA 22202

Dear Sir:

Since this Information Disclosure Statement is filed before the receipt of a first Office Action on the merits for the above-captioned application, no filing fee is due. If it is determined that a fee is due, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 50-1213.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (36 pages) and copies of the cited documents are provided herewith.

The cited documents, listed on Forms PTO-1449 and supplied herewith, are in the English language with the exception of items BL, BM and QM, which are in the Japanese language. Items BL (Japanese Patent No. 0037195) and BM (Japanese Patent No. 0078990) are provided with English language equivalents (items AX and BD). An English-language abstract is provided on the last page of item QM (Shiozaki

U.S.S.N. 10/099,700
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Information Disclosure Statement

et al.). Hence, in accordance with the requirements of 37 C.F.R. § 1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

<u>U.S.S.N.</u>	<u>Filing Date</u>	<u>Docket No.</u>
09/444,172	11/19/99	24745-1604
09/580,535	05/26/00	24745-1604B
09/716,036	11/17/00	24745-1604C
09/717,473	11/20/00	24745-1605
10/014,171	12/11/01	24745-1606
09/776,191	02/02/01	24745-1607
10/156,214	05/23/02	24745-1611
10/104,271	03/20/02	24745-1614
10/112,221	03/27/02	24745-1615
10/147,211	05/14/02	24745-1616
10/190,030	07/03/02	24745-1618
10/267,219	10/08/02	24745-1621
Unassigned	11/20/02	24745-1622
60/357,533	02/14/02	24745-P1623
09/657,986	09/08/00	

<u>Int'l App. No.</u>	<u>Filing Date</u>	<u>Docket No.</u>
PCT/US01/48032	12/11/01	24745-1606PC
PCT/US02/16819	05/23/02	24745-1611PC
PCT/US02/07903	03/13/02	24745-1613PC
PCT/US02/09039	03/20/02	24745-1614PC
PCT/US02/09611	03/27/02	24745-1615PC
PCT/US02/15332	05/14/02	24745-1616PC
PCT/US02/21208	07/03/02	24745-1618PC
Unassigned	10/08/02	24745-1621PC
Unassigned	11/20/02	24745-1622PC

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this

U.S.S.N. 10/099,700
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Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

* * *

Respectfully submitted,
HELLER EHRMAN WHITE & McAULIFFE LLP

By: _____

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Registration No. 33,779

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STATEMENTAPPLICANT
MADISON et al.FILING DATE
March 13, 2002GROUP
1645

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	A	3	5	3	6	8	0	9	10/27/70	Applezweig	424	28	02/17/69
	B	3	5	9	8	1	2	3	08/10/71	Zaffaroni	128	268	04/01/69
	C	3	6	3	0	2	0	0	12/28/71	Higuchi	128	260	06/09/69
	D	3	6	4	5	0	9	0	02/29/72	Mochizuki et al.	58	58	06/19/70
	E	3	8	4	3	4	4	3	10/22/74	Fishman	195	63	03/30/73
	F	3	8	4	5	7	7	0	11/05/74	Theeuwes et al.	128	260	06/05/72
	G	3	9	1	6	8	9	9	11/04/75	Theeuwes et al.	128	260	02/07/74
	H	3	9	4	0	4	7	5	02/24/76	Gross	424	1	07/07/71
	I	4	0	0	6	1	1	7	02/01/77	Merrifield et al.	260	45.9 NP	06/06/75
	J	4	0	0	8	7	1	9	02/22/77	Theeuwes et al.	128	260	02/02/76
	K	4	1	7	9	3	3	7	12/18/79	Davis et al.	435	181	07/28/77
	L	4	2	4	4	7	2	1	01/13/81	Gupta et al.	65	31	01/31/79
	M	4	3	0	1	1	4	4	11/17/81	Iwashita et al.	424	78	07/10/80
	N	4	4	9	6	6	8	9	01/29/85	Mitra	525	54.1	12/27/83
	O	4	5	0	7	2	3	0	03/26/85	Tam et al.	260	112.5 R	05/12/82
	P	4	5	2	2	8	1	1	06/11/85	Eppstein et al.	514	2	07/08/82
	Q	4	6	4	0	8	3	5	02/03/87	Shimizu et al.	424	94	10/28/83
	R	4	6	7	0	4	1	7	06/02/87	Shimizu et al.	514	6	02/21/86
	S	4	6	8	7	6	1	0	08/18/87	Vassilatos	264	211.14	04/30/86
	T	4	7	6	9	0	2	7	09/06/88	Baker et al.	424	493	02/24/87
	U	4	7	9	1	1	9	2	12/13/88	Nakagawa et al.	530	399	06/18/87
	V	4	9	0	8	4	0	5	03/13/90	Bayer et al.	525	61	01/02/86
	W	4	9	4	6	7	7	8	08/07/90	Ladner et al.	435	69.6	01/19/89

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Title: **NUCLEIC ACID MOLECULES ENCODING A TRANSMEMBRANE SERINE PROTEASE 7, THE ENCODED POLYPEPTIDES AND METHODS BASED THEREON**

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EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	X	4	9	5	2	4	9	6	08/28/90	Studier et al.	435	91	12/29/86
	Y	4	9	8	0	2	8	6	12/25/90	Morgan et al.	435	172.3	01/03/89
	Z	5	0	5	9	5	9	5	10/22/91	Le Grazie	424	468	03/20/90
	AA	5	0	7	3	5	4	3	12/17/91	Marshall et al.	514	21	07/21/88
	AB	5	1	2	0	5	4	8	06/09/92	McClelland et al.	424	473	11/07/89
	AC	5	2	1	5	8	9	9	06/01/93	Dattagupta	435	6	08/23/90
	AD	5	2	2	5	5	3	9	07/06/93	Winter	530	387.3	10/25/91
	AE	5	2	7	0	1	7	0	12/14/93	Schatz et al.	435	7.37	10/16/91
	AF	5	2	9	2	8	1	4	03/08/94	Bayer et al.	525	243	03/14/91
	AG	5	3	0	4	4	8	2	04/19/94	Sambrook et al.	435	226	09/28/90
	AH	5	3	3	8	6	6	5	08/16/94	Schatz et al.	435	6	10/15/92
	AI	5	3	5	4	5	6	6	10/11/94	Addesso et al.	426	9	06/02/93
	AJ	5	3	8	9	4	4	9	02/14/95	Afeyan et al.	428	523	01/05/93
	AK	5	4	3	6	1	2	8	07/25/95	Harpold et al.	435	6	01/27/93
	AL	5	4	8	2	8	4	8	01/09/96	Dickson et al.	435	219	02/22/94
	AM	5	4	8	6	6	0	2	01/23/96	Sambrook et al.	536	23.2	12/17/93
	AN	5	5	3	4	4	1	8	07/09/96	Evans et al.	435	69.1	12/10/93
	AO	5	5	5	0	0	4	2	08/27/96	Sambrook et al.	435	172.1	11/13/89
	AP	5	5	7	1	6	9	6	11/05/96	Evans et al.	435	69.1	11/02/94
	AQ	5	5	9	1	7	6	7	01/07/97	Mohr et al.	514	413	06/06/95
	AR	5	5	9	7	7	0	5	01/28/97	Evans et al.	435	69.1	12/10/93
	AS	5	6	1	2	4	7	4	03/18/97	Patel	536	27.14	06/30/94
	AT	5	6	3	9	4	7	6	06/17/97	Oshlack et al.	424	468	06/02/95

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EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	FILING DATE
	AU	5	6	4	3	5	7	8	07/01/97	Robinson et al.	424	210.1	01/27/93
	AV	5	6	7	4	5	3	3	10/07/97	Santus et al.	424	493	05/26/95
	AW	5	7	1	0	0	0	4	01/20/98	Evans et al.	435	6	08/07/96
	AX	5	7	2	8	5	6	4	03/17/98	Sambrook et al.	435	215	05/21/96
	AY	5	7	3	3	5	6	6	03/31/98	Lewis	424	426	10/30/95
	AZ	5	7	6	7	1	7	4	06/16/98	Nakagawa et al.	523	217	01/27/97
	BA	5	7	9	2	6	1	6	08/11/98	Persico et al.	435	7.21	06/05/95
	BB	5	7	9	5	8	7	2	08/18/98	Ricigliano et al.	514	44	09/19/95
	BC	5	8	6	1	2	7	4	01/19/99	Evans et al.	435	69.1	06/07/95
	BD	5	8	6	6	4	1	3	02/02/99	Sambrook et al.	435	320.1	11/25/97
	BE	5	9	0	2	7	2	3	05/11/99	Dower et al.	435	6	07/12/96
	BF	5	9	2	5	5	2	5	07/20/99	Fodor et al.	435	6	04/03/98
	BG	5	9	7	2	6	1	6	10/26/99	O'Brien et al.	435	6	02/20/98
	BH	6	1	2	1	2	3	8	09/19/00	Dower et al.	514	13	02/03/99
	BI	6	2	7	0	9	8	8	08/07/01	Brinkmann et al.	435	69.1	01/27/93
	BJ	6	3	2	3	3	3	2	11/27/01	Fukuda et al.	536	23.2	01/21/99
	BK	6	3	3	7	0	7	2	01/08/02	Ford et al.	424	198.1	07/07/99

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EXAMINER INITIAL	*Ref. Code	DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUB CLASS	Translation Yes No	
	BL	0	0	3	7	1	9	5	02/08/00	JP				X +
	BM	0	0	7	8	9	9	0	03/21/00	JP				X +
	BN	0	1	2	9	0	5	8	04/26/01	PCT A1				

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													Yes	No
	BO	0	1	3	6	3	5	1	05/25/01	PCT A2				
	BP	0	1	3	6	6	0	4	05/25/01	PCT A2				
	BQ	0	1	3	6	6	4	5	05/25/01	PCT A2				
	BR	0	1	4	6	4	0	7	06/28/01	PCT A1				
	BS	0	1	5	5	3	0	1	08/02/01	PCT A2				
	BT	0	1	5	4	4	7	7	08/02/01	PCT A2				
	BU	0	1	5	5	4	4	1	08/02/01	PCT A2				
	BV	0	1	5	7	1	9	4	08/09/01	PCT A2				
	BW	0	2	0	7	7	2	67	10/03/02	PCT A2				
	BX	0	2	1	4	3	4	9	02/21/02	PCT A2				
	BY	0	2	2	0	4	7	5	03/14/02	PCT A2				
	BZ	0	3	2	0	3	0	8	06/14/89	EP B1				
	CA	0	4	6	2	2	0	7	03/01/90	EP B1				
	CB	0	6	1	3	6	8	3	07/09/94	EP A1 & B1				
	CC	1	0	2	9	9	2	1	08/23/00	EP A1				
	CD	1	1	8	2	2	0	7	02/27/02	EP A2				
	CE	8	6	0	3	8	4	0	03/07/86	PCT				
	CF	8	8	0	9	8	1	0	12/15/88	PCT				
	CG	8	9	1	0	1	3	4	11/02/89	PCT				
	CH	9	0	1	0	6	4	9	09/20/90	PCT				
	CI	9	0	1	1	3	6	4	10/04/90	PCT				
	CJ	9	0	1	3	6	7	8	11/15/90	PCT				
	CK	9	2	0	6	1	8	0	04/16/92	PCT				

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													Yes	No
	CL	9	2	0	6	2	0	3	04/16/92	PCT				
	CM	9	2	2	0	3	1	6	11/26/92	PCT				
	CN	9	2	2	2	6	3	5	12/23/92	PCT				
	CO	9	3	1	4	1	8	8	07/22/93	PCT				
	CP	9	3	2	0	2	2	1	10/14/93	PCT				
	CQ	9	3	2	5	2	2	1	23/12/93	PCT				
	CR	9	4	0	8	5	9	8	04/28/94	PCT				
	CS	9	4	1	7	7	8	4	18/08/94	PCT				
	CT	9	5	1	1	7	5	5	05/04/95	PCT				
	CU	9	5	3	4	3	2	6	12/21/95	PCT				
	CV	9	7	3	9	0	2	1	10/23/97	PCT				
	CW	9	7	4	7	3	1	4	12/18/97	PCT				
	CX	9	8	2	1	3	2	0	05/22/98	PCT				
	CY	9	8	3	2	6	1	9	07/01/99	PCT				

X+ = An English language equivalent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

CZ	Abraham <i>et al.</i> , "Immunochemical Identification of the Serine Protease Inhibitor α_1 -Antichymotrypsin in the Brain Amyloid Deposits of Alzheimer's Disease", <i>Cell</i> , <u>52</u> :487-501 (1988)
DA	Adams <i>et al.</i> , "The <i>c-myc</i> oncogene driven by immunoglobulin enhancers induces lymphoid malignancy in transgenic mice", <i>Nature</i> , <u>318</u> :533-538 (1985)
DB	Alam <i>et al.</i> , "Reporter Genes: Application to the Study of Mammalian Gene Transcription", <i>Anal. Biochem.</i> , <u>188</u> :245-254 (1990)
DC	Alexander <i>et al.</i> , "Expression of the <i>c-myc</i> Oncogene under Control of an Immunoglobulin Enhancer in <i>Eμ-myc</i> Transgenic Mice", <i>Mol. Cell Biol.</i> , <u>7</u> (4):1436-1444 (1987)

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	FILING DATE March 13, 2002	GROUP 1645

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

DD	Alonso <i>et al.</i> , "Effects of synthetic urokinase inhibitors on local invasion and metastasis in a murine mammary tumor model", <i>Breast Cancer Res. Treat.</i> , <u>40</u> :209-223 (1996)
DE	Avery <i>et al.</i> , "Systemic Amiloride Inhibits Experimentally Induced Neovascularization", <i>Arch. Ophthalmol.</i> , <u>108</u> :1474-1476 (1990)
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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1613	SERIAL NO. 10/099,700
	APPLICANT MADISON et al.	
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NA	NCBI Nucleotide U81291
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ND	NCBI Nucleotide AF042822
NE	NCBI Nucleotide NM_016425
NF	NCBI Nucleotide AF113596
NG	NCBI Nucleotide U75329
NH	NCBI Nucleotide X70900
NI	NCBI Nucleotide M18930
NJ	NCBI Nucleotide AF030065
NK	NCBI Nucleotide AF118224

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	NO	NCBI Nucleotide AF133845
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FORM PTO-1449 (Modified) LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 24745-1613	SERIAL NO. 10/099,700
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FORM PTO-1449 (Modified)	ATTY. DOCKET NO. 24745-1613	SERIAL NO. 10/099,700
	APPLICANT MADISON et al.	
	FILING DATE March 13, 2002	GROUP 1645

LIST OF PATENTS AND PUBLICATIONS FOR
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SS	Wu <i>et al.</i> , "Delivery systems for gene therapy", <i>Biotherapy</i> , <u>3</u> :87-95 (1991)
ST	Wu <i>et al.</i> , "Receptor-mediated <i>in Vitro</i> Gene Transformation by a Soluble DNA Carrier System", <i>J. Biol. Chem.</i> , <u>262</u> (1):4429-4432 (1987)
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SW	Yahagi <i>et al.</i> , "Complementary DNA Cloning and Sequencing of Rat Enteropeptidase and Tissue Distribution of Its mRNA", <i>Biochem. Biophys. Res. Commun.</i> , <u>219</u> :806-812 (1996)
SX	Yamamoto <i>et al.</i> , "Identification of a Functional Promoter in the Long Terminal Repeat of Rous Sarcoma Virus", <i>Cell</i> , <u>22</u> :787-797 (1980)
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TH	York <i>et al.</i> , "Combinatorial Mutagenesis of the Reactive Site Region in Plasminogen Activator Inhibitor I", <i>J. Biol. Chem.</i> , <u>266</u> (13):8495-8500 (1991)
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TJ	Zallipsky, "Functionalized Poly(ethylene glycol) for Preparation of Biologically Relevant Conjugates", <i>Bioconjugate Chem.</i> , <u>6</u> :150-165 (1995)
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TL	Zebedee <i>et al.</i> , "Human Combinatorial Antibody Libraries to Hepatitis B Surface Antigen", <i>Proc. Natl. Acad. Sci. USA</i> , <u>89</u> :3175-3179 (1992)
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TN	Zhang <i>et al.</i> , "Modeling <i>Pichia pastoris</i> Growth on Methanol and Optimizing the Production of a Recombinant Protein, the Heavy-Chain Fragment C of Botulinum Neurotoxin, Serotype A", <i>Biotechnol Bioengineering</i> , <u>70</u> (1):1-8 (2000)
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TECH CENTER 1600/2900	Zon, "Oligonucleotide Analogues as Potential Chemotherapeutic Agents", <i>Pharm. Res.</i> , <u>5</u> (9):539-549 (1988)
JAN 09 2003	Zuckermann <i>et al.</i> , "Efficient Method for the Preparation of Peptoids [Oligo(N-substituted glycines)] by Submonomer Solid-Phase Synthesis", <i>J. Am. Chem. Soc.</i> , <u>114</u> :10646-10647 (1992)
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